

## ABSTRACT

A vehicle security device for improving the security level of a vehicle. The vehicle security device (11) is  
5 connected to an engine (16) and communicates with a portable device (11). A smart ECU (13) performs a first coded communication to establish mutual authentication with the portable device. An ID code box (14) is connected to the smart ECU, has a first code and a second code, and does not  
10 communicate with the portable device. The ID code box performs a second coded communication using the first code to establish a second mutual authentication with the smart ECU. An engine ECU (15) performs a third coded communication using the second code to establish a third  
15 mutual authentication with the ID code box. The engine ECU enables the engine to be started when every one of the first, second, and third mutual authentications are established.